## DIGITAL MINIMALLY INVASIVE SURGERY SYSTEM

## Abstract of the Disclosure

software-integrated Α disposable kit (20) of sterile contains series packages which a hold instrumented surgical tools (26, 28, 30), accessories (42, 46) which are implanted or used during surgery, peripherals (40) e.g., mouse, keyboard, etc., for a user input control (34) for controlling a computer markers (32) which are tracked by a tracking system (16), all in sterile condition, and a one time use digital medium (50). When image guided surgery is to performed, the digital medium is inserted into computer (10) and the user interface is displayed. The digital medium stores a portion of the software which, in combination with software on the computer, provides all of the software necessary for full user functionality, which includes display of selected diagnostic image information, tracking of the instrumented surgical instruments, superimposition of the virtual representations of the surgical tools on the images, descriptions, specifications and characteristics of the specific surgical tools in the kit, and 3D virtual representations or images of the instrumented tools for wireframe or rendered display of the surgical tools (14). At the end of a surgical procedure, the digital medium is deactivated or encrypted The digital medium and the used surgical tools are then disposed of without reuse. The system allows the user to save relevant information obtained from the surgery e.g., images, notes, etc. on the digital medium which is encrypted against reuse and archived.